



## eCore

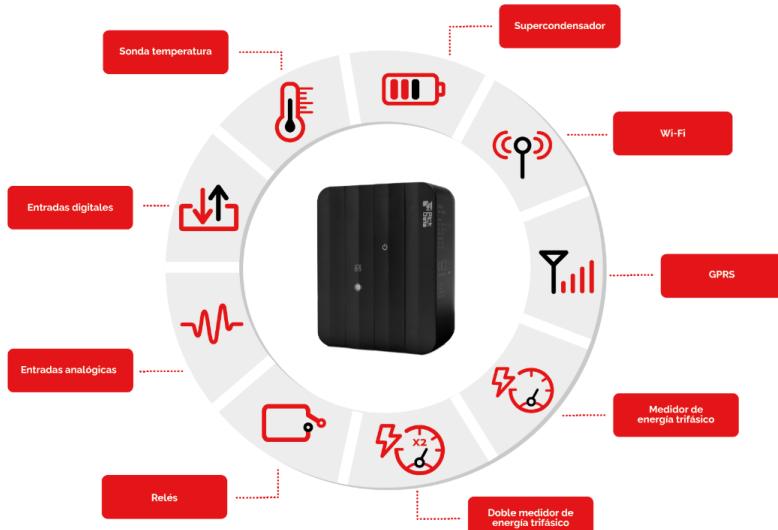
eCore, ESP32 controller

Code: D10000.

- > Memory: 8 MB | 16 MB
- > Modules: 4
- > Communications: RS232/485 | Ethernet | Wi-Fi
- > Measure: -
- > Power supply: 85 ... 264 V~
- > Current Transformers: -
- > CPU: ESP32 Dual-core 32-bit 240 MHz

## Description

Range of controllers designed for applications with real-time needs and strict cost requirements. ESP32 Technology, FreeRTOS Operating System, Modbus RTU/TCP and MQTT built in.





## eCore

Code: D10000.

### Specifications

#### AC power supply

Consumption	8,8 ... 10,5 VA
Frequency	47 ... 63 Hz
Nominal voltage	85 ... 264 V~

#### DC power supply

Consumption	6,4 ... 6,5 W
Nominal voltage	120 ... 300 Vdc

#### Electrical characteristics

Isolation level	3 kVac
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#### Mechanical characteristics

Size (mm) width x height x depth	70 x 89 x 48 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing VO
Fastening	DIN rail 46277 (EN 50022)
Weight (kg)	0,162

#### Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	5...95 %
Working temperature	-20...+50 °C

#### Communication Network

Technology / Interface	Ethernet 10/100 Mbps
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#### Control Unit

Clock	RTC
CPU	ESP32 Dual-core 32-bit 240 MHz
PSRAM Memory	8 MB
SPI Flash Memory	16 MB

#### Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Electrical safety, Contamination level/class	Double-insulated electric shock protection class II (IEC 61010)
Standards	UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4

#### Electrical safety

Insulation	3 kVac
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## eCore

Code: D10000.

### Memory

Type	PSRAM (8 MB) & SPI Flash (16 MB)
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### Serial communication

Technology / Type	RS-232 (full-duplex) / RS-485 (half-duplex) Galvanic isolation
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### Wireless communication

Band	802.11 b/g/n (2.4 GHz.)
Technology / Type	Wi-Fi

### eCore Essential

ESP32 controllers

CODE	TYPE	CPU	Memory	Communications	Power supply
<b>eCore Essential</b>					
D10000.	eCore	ESP32 Dual-core 32-bit 240 MHz	8 MB   16 MB	RS232/485   Ethernet   Wi-Fi	85 ... 264 V~
D10010.	eCore GPRS	ESP32 Dual-core 32-bit 240 MHz	8 MB   16 MB	RS232/485   Ethernet   Wi-Fi   GPRS	85 ... 264 V~